

3M Innovative Properties Company
Our Ref.: H2748 PCT

It is Claimed:

CLAIMS

VOSSIUS & PARTNER
PATENTANWÄLTE
SIEBERTSTR. 4
81675 MÜNCHEN

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1. A cationic polymerizable adhesive composition comprising:

(a) a cationic polymerizable monomer selected from an epoxy monomer, a
5 vinyl ether monomer, or a mixture thereof; being an <->

(b) a cationic polymerization catalyst; and

(c) a solvent for the cationic polymerization catalyst,

wherein the solvent is a mixture of a good solvent and a poor solvent for the cationic
polymerization catalyst.

2. The cationic polymerizable adhesive composition as claimed in claim 1, wherein a
weight ratio of the good solvent to the poor solvent is within a range from 5:95 to 60:40.

~~3. The cationic polymerizable adhesive composition as claimed in claim 1 or 2,~~

15 ~~wherein the cationic polymerization catalyst has~~ [an absorption peak in a visible light range
of from 360 to 830 nm]

~~4. The cationic polymerizable adhesive composition as claimed in claim 2 wherein /~~
~~the cationic polymerization catalyst is~~ (iron-arene complex, having [-])

3. 8. An anisotropically electroconductive adhesive composition comprising the cationic
polymerizable adhesive composition claimed in any one of claims 1 to ²/~~4~~ and
electroconductive particles.

25 4. 6. An adhesive film formed by applying the cationic polymerizable adhesive
composition claimed in claim 1 onto a separator and drying the coating film.

5. 7. An anisotropically electroconductive adhesive film formed by applying the
anisotropically electroconductive adhesive composition claimed in claim ³/~~5~~ onto a
separator and drying the coating film.

~~It is Claimed:~~

An anisotropically electroconductive adhesive composition comprising

6. 1. A cationic polymerizable adhesive composition comprising:

- (a) a cationic polymerizable monomer selected from an epoxy monomer, a vinyl ether monomer, or a mixture thereof;
- (b) a cationic polymerization catalyst; and
- (c) a solvent for the cationic polymerization catalyst,

wherein the solvent is a mixture of a good solvent and a poor solvent for the cationic polymerization catalyst; and electroconductive particles.

2. ~~The cationic polymerizable adhesive composition as claimed in claim 1, wherein a weight ratio of the good solvent to the poor solvent is within a range from 5:95 to 60:40.~~

3. ~~The cationic polymerizable adhesive composition as claimed in claim 1 or 2, wherein the cationic polymerization catalyst has an absorption peak in a visible light range of from 360 to 830 nm.~~

4. ~~The cationic polymerizable adhesive composition as claimed in claim 3, wherein the cationic polymerization catalyst is iron-arene complex.~~

5. ~~An anisotropically electroconductive adhesive composition comprising the cationic polymerizable adhesive composition claimed in any one of claims 1 to 4 and electroconductive particles.~~

6. ~~An adhesive film formed by applying the cationic polymerizable adhesive composition claimed in claim 1 onto a separator and drying the coating film.~~

7. ~~An anisotropically electroconductive adhesive film formed by applying the anisotropically electroconductive adhesive composition claimed in claim 5 onto a separator and drying the coating film.~~